

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/527,571B

Source: IFWP

Date Processed by STIC: 9/6/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10527, 571B

CRF Edit Date: 8/28/06
Edited by: KE

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

```

3 <110> APPLICANT: Syngenta Participations AG
4     Stam, Lynn
5     Kamdar, Kim
6     Spana, Eric
7     Bachmann, Jane
9 <120> TITLE OF INVENTION: Nucleic Acid Sequences from Drosophila Melanogaster that
Encode Proteins
10     Essential for Viability and Uses Thereof
12 <130> FILE REFERENCE: 70131WOPCT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/527,571B
C--> 15 <141> CURRENT FILING DATE: 2005-03-14
17 <150> PRIOR APPLICATION NUMBER: 60/422,377
18 <151> PRIOR FILING DATE: 2002-10-29
20 <160> NUMBER OF SEQ ID NOS: 381
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 27
26 <212> TYPE: DNA
27 <213> ORGANISM: artificial sequence
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (1)..(27)
32 <223> OTHER INFORMATION: primer Plac4
35 <400> SEQUENCE: 1
36 actgtgctgtt aggtcctgtt cattgtt                27
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 24
41 <212> TYPE: DNA
42 <213> ORGANISM: artificial sequence
44 <220> FEATURE:
45 <221> NAME/KEY: misc_feature
46 <222> LOCATION: (1)..(24)
47 <223> OTHER INFORMATION: Primer Plac1
50 <400> SEQUENCE: 2
51 caccctaaggc tctgctccca caat                    24
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 23
56 <212> TYPE: DNA
57 <213> ORGANISM: artificial sequence
59 <220> FEATURE:
60 <221> NAME/KEY: misc_feature
61 <222> LOCATION: (1)..(23)
62 <223> OTHER INFORMATION: Primer Pry4
64 <400> SEQUENCE: 3

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RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

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65 caatcatatc gctgtctcac tca                                     23
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 26
70 <212> TYPE: DNA
71 <213> ORGANISM: artificial sequence
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (1)..(26)
76 <223> OTHER INFORMATION: Primer Pry1
79 <400> SEQUENCE: 4
80 ccttagcatg tccgtgggggt ttgaat                                     26
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 28
85 <212> TYPE: DNA
86 <213> ORGANISM: artificial sequence
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: (1)..(28)
91 <223> OTHER INFORMATION: Primer Pry2
94 <400> SEQUENCE: 5
95 cttgccgacg ggaccacctt atgttatt                                     28
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 19
100 <212> TYPE: DNA
101 <213> ORGANISM: artificial sequence
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (1)..(19)
106 <223> OTHER INFORMATION: Primer Plw3-1
109 <400> SEQUENCE: 6
110 tgtcggcgctc atcaactcc                                           19
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 29
115 <212> TYPE: DNA
116 <213> ORGANISM: artificial sequence
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (1)..(29)
121 <223> OTHER INFORMATION: Primer Pwht1
124 <400> SEQUENCE: 7
125 gtaacgctaa tcaactccgaa caggtcaca                               29
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 25
130 <212> TYPE: DNA
131 <213> ORGANISM: artificial sequence
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <222> LOCATION: (1)..(25)
136 <223> OTHER INFORMATION: Primer Splac2

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RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

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139 <400> SEQUENCE: 8
140 gaattcactg gccgtcgttt tacaa                                25
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 22
145 <212> TYPE: DNA
146 <213> ORGANISM: artificial sequence
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (1)..(22)
151 <223> OTHER INFORMATION: Primer Sp1
154 <400> SEQUENCE: 9
155 acacaacctt tcctctcaac aa                                22
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 24
160 <212> TYPE: DNA
161 <213> ORGANISM: artificial sequence
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (1)..(24)
166 <223> OTHER INFORMATION: Primer Sp3
169 <400> SEQUENCE: 10
170 gagtacgcaa agctttaact atgt                                24
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 23
175 <212> TYPE: DNA
176 <213> ORGANISM: artificial sequence
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <222> LOCATION: (1)..(23)
181 <223> OTHER INFORMATION: Primer Sp6
184 <400> SEQUENCE: 11
185 tgaccacatc caaacatcct ctt                                23
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 25
190 <212> TYPE: DNA
C--> 191 <213> ORGANISM: artificial sequence
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (1)..(25)
196 <223> OTHER INFORMATION: Primer Sp5
199 <400> SEQUENCE: 12
200 gcatcacaaa aatcgacgct caagt                                25
203 <210> SEQ ID NO: 13
204 <211> LENGTH: 19
205 <212> TYPE: DNA
206 <213> ORGANISM: artificial sequence
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <222> LOCATION: (1)..(19)

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RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

```

211 <223> OTHER INFORMATION: Primer Spep1
214 <400> SEQUENCE: 13
215 gacactcaga atactatttc                                     19
218 <210> SEQ ID NO: 14
219 <211> LENGTH: 6342
220 <212> TYPE: DNA
221 <213> ORGANISM: Drosophila melanogaster
223 <220> FEATURE:
224 <221> NAME/KEY: CDS
225 <222> LOCATION: (1)..(6342)
226 <223> OTHER INFORMATION: CT28483
229 <400> SEQUENCE: 14
230 atg acc gcc tcg gat aaa tac acg tac cag cgg acc gtt ctc tgc ctg         48
231 Met Thr Ala Ser Asp Lys Tyr Thr Tyr Gln Arg Thr Val Leu Cys Leu
232 1          5          10          15
234 gcc cgc gtt ctg gcg ggc atc cag ccc act ccc tgg gat aag gta cat         96
235 Ala Arg Val Leu Ala Gly Ile Gln Pro Thr Pro Trp Asp Lys Val His
236          20          25          30
238 gtc cac ctg gcc acc cac tcc acc agc cac agc gcc agc ccc cct ggc         144
239 Val His Leu Ala Thr His Ser Thr Ser His Ser Ala Ser Pro Pro Gly
240          35          40          45
242 aat cga ctt ttc gca ctg acc ttg agc ggc ggc cat aaa aca gac atg         192
243 Asn Arg Leu Phe Ala Leu Thr Leu Ser Gly Gly His Lys Thr Asp Met
244          50          55          60
246 cgt ggg cgc tca ggg ggc ggc ggt aag gca gtg cag acc ctg ttc cgg         240
247 Arg Gly Arg Ser Gly Gly Gly Gly Lys Ala Val Gln Thr Leu Phe Arg
248 65          70          75          80
250 tat tgt ccg cag gag aat gct gcc gga gtg ttt tgc ctg gac acg cgg         288
251 Tyr Cys Pro Gln Glu Asn Ala Ala Gly Val Phe Cys Leu Asp Thr Arg
252          85          90          95
254 gcc cag gat gcc gta att gcg ctg ggc att tat ttt ctg gag ggc ggc         336
255 Ala Gln Asp Ala Val Ile Ala Leu Gly Ile Tyr Phe Leu Glu Gly Gly
256          100         105         110
258 tgc cag cac gag ggc cag att gtg ccc tat ctg ctg cgt ctg gcc aag         384
259 Cys Gln His Glu Gly Gln Ile Val Pro Tyr Leu Leu Arg Leu Ala Lys
260          115         120         125
262 tgt ctg ccg aag gcg gtc tgg att gac gat gcc cgg agc aac aaa gtg         432
263 Cys Leu Pro Lys Ala Val Trp Ile Asp Asp Ala Arg Ser Asn Lys Val
264          130         135         140
266 gaa cgc gtt cgc att ccg tcg gcg gaa aag ttc agc ttc tgc ttg aac         480
267 Glu Arg Val Arg Ile Pro Ser Ala Glu Lys Phe Ser Phe Cys Leu Asn
268 145         150         155         160
270 acc ctg ctg tcc gac ata gcg gcc aag tgt ccg gat tcg cgc gag gag         528
271 Thr Leu Leu Ser Asp Ile Ala Ala Lys Cys Pro Asp Ser Arg Glu Glu
272          165         170         175
274 atc atc ctg aat cag gtg gaa acg ctg agc gcg ctg gcc aac ata gtc         576
275 Ile Ile Leu Asn Gln Val Glu Thr Leu Ser Ala Leu Ala Asn Ile Val
276          180         185         190
278 aag tcg agc agg gac agc agc tcc gca ccg ccg ccc atc atc ctg tgc         624

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RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:28

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

```

279 Lys Ser Ser Arg Asp Ser Ser Ser Ala Pro Pro Pro Ile Ile Leu Cys
280      195      200      205
282 aag gcc acg gtg ccg ctg ctc ttc ggc ttg gcg cga tcg atg ggt cgc      672
283 Lys Ala Thr Val Pro Leu Leu Phe Gly Leu Ala Arg Ser Met Gly Arg
284      210      215      220
286 tat gcc agc aac gat cca ccg ctg ctg tgc cgc att ttt ccg ccc gag      720
287 Tyr Ala Ser Asn Asp Pro Pro Leu Leu Cys Arg Ile Phe Pro Pro Glu
288 225      230      235      240
290 ctg ctg ccc atc cag aag ggc ggc ggc cgc gac ggc acc ggc tcg agc      768
291 Leu Leu Pro Ile Gln Lys Gly Gly Gly Arg Asp Gly Thr Gly Ser Ser
292      245      250      255
294 agc agt gcc agc ggc acc tgc ggc ggc tcc ttc agc agc agc gaa cgc      816
295 Ser Ser Ala Ser Gly Thr Cys Gly Gly Ser Phe Ser Ser Ser Glu Arg
296      260      265      270
298 ctg gcg gcc acg cat cac ttc cga ccc atc ata ccg cgc tcc atg tcc      864
299 Leu Ala Ala Thr His His Phe Arg Pro Ile Ile Pro Arg Ser Met Ser
300      275      280      285
302 ggc agt ctg gcg cag gcc cag aac gca agc tac gac gat gga agg cag      912
303 Gly Ser Leu Ala Gln Ala Gln Asn Ala Ser Tyr Asp Asp Gly Arg Gln
304      290      295      300
306 cgg tgc gcg ggc ggc aag ccc agc aag cca tcg ttg cac agc tac ttt      960
307 Arg Cys Ala Gly Gly Lys Pro Ser Lys Pro Ser Leu His Ser Tyr Phe
308 305      310      315      320
310 tcg gtg ccg tac gat ccg cgg acg cac ttc ttc acg cgc tac ggc tcc      1008
311 Ser Val Pro Tyr Asp Pro Arg Thr His Phe Phe Thr Arg Tyr Gly Ser
312      325      330      335
314 agt ttc aac caa ttc ccg aac atg cgc gtc tgc gaa tcg ccc acg aaa      1056
315 Ser Phe Asn Gln Phe Pro Asn Met Arg Val Cys Glu Ser Pro Thr Lys
316      340      345      350
318 ggc ggc cca cga cca ctg tat cgt gtg cct ccg ttt ccc atc cag cat      1104
319 Gly Gly Pro Arg Pro Leu Tyr Arg Val Pro Pro Phe Pro Ile Gln His
320      355      360      365
322 cta cag acc ata ttc gcg gtg tcc aag aag ctg ctc acc aaa gac acc      1152
323 Leu Gln Thr Ile Phe Ala Val Ser Lys Lys Leu Leu Thr Lys Asp Thr
324      370      375      380
326 ctc gaa cat ctc gac gag cag gca agc gat ata ttt tcg ctg cac caa      1200
327 Leu Glu His Leu Asp Glu Gln Ala Ser Asp Ile Phe Ser Leu His Gln
328 385      390      395      400
330 atc aag ggc tat tgc tac aag agc ttc tcg gaa acg ttg aac ctg gtc      1248
331 Ile Lys Gly Tyr Cys Tyr Lys Ser Phe Ser Glu Thr Leu Asn Leu Val
332      405      410      415
334 ctg gtg acc ctg ctc agg gaa ctg ctg cag cat cag gtt gac ctg ccc      1296
335 Leu Val Thr Leu Leu Arg Glu Leu Leu Gln His Gln Val Asp Leu Pro
336      420      425      430
338 acg ccg ttc acc aag gat gtg cag gag ttc gtc aag cgg ctc ttt ctc      1344
339 Thr Pro Phe Thr Lys Asp Val Gln Glu Phe Val Lys Arg Leu Phe Leu
340      435      440      445
342 aac ggc caa acg gag ctg cag aat aaa cag cag gat cag gaa cgc gag      1392
343 Asn Gly Gln Thr Glu Leu Gln Asn Lys Gln Gln Asp Gln Glu Arg Glu

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/527,571B

DATE: 09/06/2006
TIME: 09:42:29

Input Set : N:\KEISHA\10527571b.txt
Output Set: N:\CRF4\09052006\J527571B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:56; Xaa Pos. 411
Seq#:57; Xaa Pos. 415
Seq#:180; Xaa Pos. 551,572
Seq#:181; Xaa Pos. 551,572
Seq#:204; N Pos. 3000
Seq#:204; Xaa Pos. 1000
Seq#:205; Xaa Pos. 1000

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

DATE: 09/06/2006

PATENT APPLICATION: US/10/527,571B

TIME: 09:42:29

Input Set : N:\KEISHA\10527571b.txt

Output Set: N:\CRF4\09052006\J527571B.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:191 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:6917 M:280 W: Numeric Identifier already exists, Length not replaced.
L:7023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:1248
L:7195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:400
L:27070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:1680
M:341 Repeated in SeqNo=180
L:27247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:544
M:341 Repeated in SeqNo=181
L:33756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:2976
M:341 Repeated in SeqNo=204
L:34026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:992
L:50963 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:300,Line#:50960

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/527,571B

TIME: 10:18:03

Input Set : N:\RJAVED\10527571B.txt

Output Set: N:\CRF4\08282006\J527571B.raw

3 <110> APPLICANT: Syngenta Participations AG
 4 Stam, Lynn
 5 Kamdar, Kim
 6 Spana, Eric
 7 Bachmann, Jane
 9 <120> TITLE OF INVENTION: Nucleic Acid Sequences from Drosophila Melanogaster that
 Encode Proteins
 10 Essential for Viability and Uses Thereof
 12 <130> FILE REFERENCE: 70131WOPCT
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/527,571B
 C--> 15 <141> CURRENT FILING DATE: 2005-03-14
 17 <150> PRIOR APPLICATION NUMBER: 60/422,377
 18 <151> PRIOR FILING DATE: 2002-10-29
 20 <160> NUMBER OF SEQ ID NOS: 381
 22 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
 Corrected Diskette Needed

(Pg.2) 2

ERRORED SEQUENCES

50813 <210> SEQ ID NO: 299
 50814 <211> LENGTH: 522
 50815 <212> TYPE: PRT
 50816 <213> ORGANISM: Drosophila melanogaster
 50818 <400> SEQUENCE: 299
 50820 Met Ser Asp Thr Arg Glu Gln Ile Leu Glu Gln Ile Lys Val Gln Gly
 50821 1 5 10 15
 50824 Asp Leu Val Arg Gln Leu Lys Ala Ala Lys Glu Ser Lys Glu Lys Ile
 50825 20 25 30
 50828 Asp Glu Glu Val Ala Arg Leu Leu Lys Ala Thr Leu Gly Gly
 50829 35 40 45
 50832 Asp Ala Ala Pro Thr Asn Gln Lys Phe Thr Leu Lys Thr Pro Lys Gly
 50833 50 55 60
 50836 Thr Arg Asp Tyr Gly Pro Gln Gln Met Thr Leu Arg Gln Gly Val Leu
 50837 65 70 75 80
 50840 Asp Lys Ile Val Gln Val Phe Lys Arg His Gly Gly Glu Ala Ile Asp
 50841 85 90 95
 50844 Thr Pro Val Phe Glu Leu Lys Glu Val Leu Thr Gly Lys Tyr Gly Glu
 50845 100 105 110
 50848 Asp Ser Lys Leu Ile Tyr Asp Leu Lys Asp Gln Gly Gly Glu Ile Leu
 50849 115 120 125
 50852 Ser Met Arg Tyr Asp Leu Thr Val Pro Leu Ala Arg Tyr Leu Ala Met
 50853 130 135 140
 50856 Asn Lys Ile Ser Ser Ile Lys Arg Tyr His Ile Ala Lys Val Tyr Arg
 50857 145 150 155 160

RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/527,571B

TIME: 10:18:06

Input Set : N:\RJAVED\10527571B.txt

Output Set: N:\CRF4\08282006\J527571B.raw

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50860 Arg Asp Asn Pro Ala Met Thr Lys Gly Arg Tyr Arg Glu Phe Tyr Gln
50861                               165                               170                               175
50864 Cys Asp Phe Asp Ile Ala Gly Thr Tyr Asp Pro Met Leu Pro Asp Ala
50865                               180                               185                               190
50868 Glu Cys Val Lys Ile Val Ser Glu Ile Leu Asp Thr Leu Asp Ile Gly
50869                               195                               200                               205
50872 Asp Tyr Val Ile Lys Leu Asn His Arg Gln Leu Leu Asp Gly Met Phe
50873                               210                               215                               220
50876 Gln Ala Cys Gly Val Pro Ala Asp Ser Phe Arg Thr Ile Cys Ser Ala
50877 225                               230                               235                               240
50880 Val Asp Lys Leu Asp Lys Ser Pro Trp Ala Asp Val Arg Lys Glu Met
50881                               245                               250                               255
50884 Val Asp Glu Lys Gly Leu Asp Glu Ala Ala Ala Asp Arg Ile Gly Glu
50885                               260                               265                               270
50888 Tyr Val Arg Leu Ser Gly Gly Ala Glu Leu Val Glu Gln Leu Leu Ala
50889                               275                               280                               285
50892 Asn Glu Lys Leu Lys Ala Val Pro Asn Ala Val Lys Gly Leu Glu Gly
50893                               290                               295                               300
50896 Met Lys Gln Leu Leu Lys Tyr Cys Ser Ile Phe Gly Leu Asp Lys Arg
50897 305                               310                               315                               320
50900 Val Ser Phe Asp Leu Ser Leu Ala Arg Gly Leu Asp Tyr Tyr Thr Gly
50901                               325                               330                               335
50904 Val Ile Tyr Glu Gly Val Leu Lys Gly Glu Ser Ala Thr Val Ala Ser
50905                               340                               345                               350
50908 Pro Ala Lys Thr Ser Gln Gln Asn Gly Glu Gln Ala Asn Glu Pro Ala
50909                               355                               360                               365
50912 Thr Val Gly Ser Val Ala Gly Gly Gly Arg Tyr Asp Asn Leu Val Gly
50913                               370                               375                               380
50916 Met Phe Asp Pro Arg Gly Lys Ala Val Pro Cys Val Gly Val Ser Ile
50917 385                               390                               395                               400
50920 Gly Val Glu Arg Ile Phe Ser Val Leu Glu Ala Arg Ala Ala Ser
50921                               405                               410                               415
50924 Gly Leu Lys Leu Arg Thr Ser Asp Val Glu Val Tyr Val Ala Ser Ala
50925                               420                               425                               430
50928 His Lys Gly Leu His Glu Gln Arg Leu Lys Val Leu Asn Leu Leu Trp
50929                               435                               440                               445
50932 Asp Ala Gly Val Lys Ala Glu His Ser Tyr Lys Leu Asn Pro Lys Leu
50933                               450                               455                               460
50936 Leu Val Gln Leu Gln His Cys Glu Glu His Gln Ile Pro Leu Val Val
50937 465                               470                               475                               480
50940 Val Leu Gly Asp Ala Glu Leu Ala Gln Gly Leu Val Lys Leu Arg Glu
50941                               485                               490                               495
50944 Val Thr Thr Arg Glu Glu Thr Asn Val Lys Leu Glu Asp Leu Ala Ala
50945                               500                               505                               510
E--> 50948 CT19850 Glu Ile Arg Arg Arg Gln Gln Ala Ser Ala
E--> 50949                               515       518       520       520

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deleted

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/28/2006
PATENT APPLICATION: US/10/527,571B TIME: 10:18:08

Input Set : N:\RJAVED\10527571B.txt
Output Set: N:\CRF4\08282006\J527571B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

DATE: 08/28/2006

PATENT APPLICATION: US/10/527,571B

TIME: 10:18:08

Input Set : N:\RJAVED\10527571B.txt

Output Set: N:\CRF4\08282006\J527571B.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:191 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:6917 M:280 W: Numeric Identifier already exists, Length not replaced.
L:7023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:1248
L:7195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:400
L:27070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:1680
M:341 Repeated in SeqNo=180
L:27247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:544
M:341 Repeated in SeqNo=181
L:33756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:2976
M:341 Repeated in SeqNo=204
L:34026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:992
L:50948 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:50948 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:50949 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:299
L:50963 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:300,Line#:50960